

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for manufacturing flat glass rich in lead oxide, comprising:

~~the continuous floating,~~

continuously floating a glass containing at least 30% lead oxide by weight on a bath of molten metal having a density higher than that of the glass;

wherein said floating occurs in a float plant with a neutral gaseous atmosphere

~~, of a glass comprising at least 30% lead oxide by weight on a bath of molten metal having a higher density than that of the glass.~~

Claim 2 (Previously Presented): The process as claimed in claim 1, wherein the neutral gaseous atmosphere comprises less than 5 ppmv oxygen.

Claim 3 (Currently Amended): The process as claimed in claim 1, wherein the neutral gaseous atmosphere ~~comprises essentially~~ consists essentially of nitrogen.

Claim 4 (Previously Presented): The process as claimed in claim 1, wherein the temperature of the bath of molten metal is lower than the temperature of a bath of molten metal in a float plant for a soda-lime-silica glass containing no lead.

Claim 5 (Currently Amended): The process as claimed in claim 1, wherein the temperature of the floating glass is between 500°C and 800°C.

Claim 6 (Previously Presented): The process as claimed in claim 1, wherein a molten metal treatment station is included with said bath.

Claim 7 (Previously Presented): The process as claimed in claim 1, wherein the glass comprises at least 45% lead oxide by weight.

Claim 8 (Previously Presented): The process as claimed in claim 1, wherein the glass comprises at least 60% lead oxide by weight.

Claim 9 (Previously Presented): The process as claimed in claim 1, wherein the glass has a density ranging from 4 to 6.

Claim 10 (Previously Presented): The process as claimed in claim 1, wherein the glass has a density ranging from 4.3 to 5.5.

Claim 11 (Previously Presented): The process as claimed in claim 1, wherein, before the float plant, the glass is melted in a furnace that includes at least one submerged burner.

Claim 12 (Currently Amended): The process as claimed in claim 11, wherein the furnace comprises at least [[two tanks]] a first and a second tank in series, the second tank being fed with lead oxide.

Claim 13 (Previously Presented): The process as claimed in claim 12, wherein the first tank is equipped with at least one submerged burner and is fed with the batch materials other than lead oxide.

Claim 14 (Previously Presented): The process as claimed in claim 12, wherein the second tank is at a lower temperature than the first tank.

Claim 15 (Previously Presented): A flat glass comprising at least 30% lead oxide by weight, manufactured by the process of claim 1.

Claim 16 (Previously Presented): A flat glass comprising at least 30% lead oxide by weight, enriched on one face with tin.

Claim 17 (Previously Presented): The glass as claimed in claim 16, comprising at least 60% lead oxide by weight.

Claim 18 (Previously Presented): A method of using the glass of claim 16 for protection against X-rays.

Claim 19 (New): The process of claim 1, wherein said neutral gaseous atmosphere does not contain hydrogen.